

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) ~~Device~~ A device for recording information on a record carrier, ~~which~~ said device comprises comprising:
- [[-]] recording means ~~(22)~~ for recording marks representing digitally encoded real-time information, ~~in particular~~ videoincluding video information, encoded according to a predefined recording format, ;
- [[-]] an input unit ~~(27)~~ for receiving a data stream constituting an enhanced user program, the data stream comprising the real-time information and application data objects, at least one subset of the application data objects constituting data for providing to a user at least one interactive application while rendering the real-time information, ;
- [[-]] message means ~~(94)~~ for extracting messages from the data stream, the messages containing the application data objects, ;
- [[-]] parsing means ~~(95)~~ for generating application control information, ; and
- [[-]] control means ~~(20)~~ for storing the messages in a message file separate from the real-time information as a series of the messages for the program, and for storing the application control information in a message info file, the application control information including accessing information for accessing the messages in the message file.

2. (Currently Amended) Device The device as claimed in claim 1, wherein the parsing means (+95) are arranged for ~~including~~includes, for a message, at least one of the following items as accessing information in the message info file:

- [[ -]] a message number, the message number identifying the message in the series of the messages;
- [[ -]] a message type indicator;
- [[ -]] a start location in the message file;
- [[ -]] length of the message;
- [[ -]] number of a succeeding message.

3. (Currently Amended) Device The device as claimed in claim 1, wherein the parsing means (+95) are arranged for ~~including~~includes active period information in the message info file, ~~in particular~~said active period information including a start time and ~~an~~ end time with respect to a presentation time of the program.

4. (Currently Amended) Device The device as claimed in claim 1, wherein the message means (+94) are arranged for ~~removing~~removes redundant information from the messages extracted from the data stream.

5. (Currently Amended) Device The device as claimed in claim 4, wherein the message means (+94) are arranged for ~~removing~~removes,

as the redundant information, header information of packets, ~~in particular~~including headers of transport stream packets or sections headers as used in compressed video data transmission (MPEG2), or download-data-block headers as used in multimedia data (MHP).

6. (Currently Amended) ~~Device~~The device as claimed in claim 4, wherein the message means ~~(+94)~~ are arranged for ~~removing~~removes, as the redundant information, messages that are repeatedly transmitted, ~~in particular~~including messages repeatedly transmitted in a data carousel.

7. (Currently Amended) ~~Device~~A device for reading information from a record carrier for rendering an enhanced user program, ~~which said device comprises~~comprising:

~~reading~~ means ~~(+30)~~—for reading marks representing digitally encoded real-time information, ~~in particular~~videoincluding video information, ~~encoded according to a predefined recording format~~; and

~~control~~ means ~~(+20; 32)~~—for providing to a user at least one interactive application based on at least one subset of application data objects while rendering the real-time information, ~~by~~said control means retrieving application control information from a message info file, and ~~by~~ retrieving messages from a message file based on accessing information included in the application control information, the messages containing the application data

objects, and the message file ~~being~~ having been stored separate from the real-time information.

8. (Currently Amended) ~~Record~~ A record carrier carrying information for constituting an enhanced user program, ~~on which~~ said record carrier having marks in a track ~~(9)~~ representing:
- [[[-]]] digitally encoded real-time information, ~~in particular~~ video including video information, encoded according to a predefined recording format,
  - [[[-]]] a message file ~~(102)~~—separate from the real-time information, the message file comprising messages containing application data objects, at least one subset of the application data objects constituting data for providing to a user at least one interactive application while rendering the real-time information, and
  - [[[-]]] a message info file ~~(101)~~—containing application control information including accessing information for accessing the messages in the message file.

9. (Currently Amended) ~~Record~~ The record carrier as claimed in claim 8, wherein the message info file ~~(101)~~—contains, as the accessing information for a message, at least one of the following items:

- [[[-]]] a message number, the message number identifying the message in the series of the messages;
- [[[-]]] a message type indicator;

[[-]] a start location in the message file;  
[[-]] length of the message;  
[[-]] start of an active period;  
[[-]] end of the active period;  
[[-]] number of succeeding message.

10. (Currently Amended) ~~Method—A method of recording information on a record carrier, which said method comprises comprising the steps of:~~

[[-]] recording digitally encoded real-time information, ~~in particular video~~including video information, encoded according to a predefined recording format;  
[[-]] receiving a data stream constituting an enhanced user program, the data stream comprising the real-time information and application data objects, at least one subset of the application data objects constituting data for providing to a user at least one interactive application while rendering the real-time information, and  
[[-]] extracting messages from the data stream, the messages containing the application data objects, and  
[[-]] generating application control information, and  
[[-]] storing the messages in a message file separate from the real-time information as a series of the messages for the program, and storing the application control information in a message info file, the application control information including accessing information for accessing the messages in the message file.

11. (Currently Amended) ~~Computer~~ A computer-readable medium having a computer program product stored thereon for recording information, which said computer program is being operative to cause a processor to perform the method of recording as claimed in claim 10.